

PU010322

DECLARATION AND POWERS OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

BI-DIRECTIONAL COMMUNICATION APPARATUS

he specification of which was fi	led on	12/21/01	as Application	on Serial No.	10/029,645	and was amended on
•		, or, if not identific	ed here by filing date	and serial nun	nber, is attached i	nereto.
I have reviewed and unders	and the conte	nts of the above ic	lentified specification	n, including the	claims, as amend	ied by any amendment
eferred to above.						_
I acknowledge the duty to di	sclose informa	ition which is mate	erial to the examinati	on of this appli	cation in accordar	nce with 37 CFR 1.56.
I hereby claim foreign priorit	y benefits und	er 35 USC 119 of	any foreign applicati	on(s) for patent	l or inventor's cert	ificate listed below and have
also identified below any foreign	application to	r patent or invento	or's certificate by me	or my represer	ntatives or assigns	s for this invention having a
iling date before that of the app	lication on whi	ch priority is claim	ned.			
Application No	in	on	pr	ority claimed	[] Yes [] No	
Application No.	in	on _	pr	ority claimed	[] Yes [] No	
Application No.	in	on _	pri	ority claimed	[] Yes [] No	
hereby claim the benefit under		e) of any United St	tates provisional app	lication(s) as li	sted below.	
	led					
hereby claim the benefit under	35 USC 120 (of any United State	es application(s) liste	ed below and, II	nsofar as the subj	ect matter of each of the
claims of this application is not	disclosed in th	e prior United Stat	tes application in the	manner provid	led by the tirst pai	ragraph of 35 USC 112, I
acknowledge the duty to disclos				wnich occurred	i between the illin	g date of the prior application
and the national or PCT interna	tional filing dat	e or this application	n 	1 -1		
Serial No.	Filed	! j p	atented [] pending [j abandoned		
Serial No. I hereby declare that all stat	rileo	herein of my our	atented [] pending [j abandoned	omonte made on	information and belief are
i nereby deciare that all stat believed to be true; and further	ements made	nerein of my own	knowledge are true	ariu iriai ali Sidi o thot vällful foli	ements made on	the like so made are
punishable by fine or imprisonr	mai mese siai	under 19 USC 100	t and that such will	ul falco etatom	ente may jennardi	ize the validity of the
application or any patent issued		under 10 030 100	or and that soon with	ui iaise stateiti	crits may jeopard	ize the validity of the
I hereby appoint, individually	and collective	ely the following a	s my/our attorney or	agent with full	power of substitu	tion and revocation, to
prosecute this application and t	n transact all h	usiness in the U.S	S Patent and Trader	nark Office con	nected therewith:	
Joseph S.			Registration No.	26.040		
Robert D. S			Registration No.		and	
	iyama		Registration No.			
Kuniyaki Ai	мушти	- · · · · · · · · · · · · · · · · · · ·				
PIFASE	ADDRESS A	LL				
	NICATIONS T					

JOSEPH S. TRIPOLI
PATENT OPERATIONS
THOMSON multimedia Licensing Inc P.O. Box 5312 PRINCETON, NEW JERSEY 08543-5312

Sole or Joint Inventor (1)	Kumar Ramaswamy	Kluun Kamamanus
	ndia	(Signature in Full. No initials.) Date Murch 200 2
_		
Residence	701 Tamarron Drive, Plainsboro, NJ	08536, U.S.A.
Sole or Joint Inventor (2)	Edward Allen Hali	
Cirihi-	(Type or Print)	(Signature In Full. No initials.)
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Residence 8	68 Desert Wind Court, Carmel, IN 46	5032. U.S.A.
Sole or Joint Inventor (3)		
Citizenship	(Type or Print)	(Signature in Full. No initials.)
Post Office Addres	29	Date
Residence		

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the specification of which	was filed on	12/21/01	as Application	on Serial No.	10/029,645	and was amended on
		, or, if not identified	nere by filing date	and serial nur	nber, is attached h	nereto.
I have reviewed and t	inderstand the conte					led by any amendment
referred to above.						
						nce with 37 CFR 1.56.
I hereby claim foreign	priority benefits und	er 35 USC 119 of any	/ foreign applicati	on(s) for paten	t or inventor's certi	ificate listed below and ha
also identified below any	foreign application fo	or patent or inventor's	certificate by me	or my represe	ntatives or assigns	s for this invention having a
filing date before that of t	he application on whi	ich priority is claimed	•			
Application No	in	on	pri	iority claimed	[] Yes [] No	
Application No.	in	on	pri	iority claimed	[]Yes[]No	
Application No.	in	on	pri	iority claimed	[] Yes [] No	
I hereby claim the benefit		e) of any United State	es provisional app	olication(s) as li	sted below.	
Application No.	Filed					
						ect matter of each of the
claims of this application	is not disclosed in th	e prior United States	application in the	manner provid	ed by the tirst par	agraph of 35 USC 112, I
			137 CFH 1.56(a)	wnich occurred	a perween the tiling	g date of the prior applicat
arid the national or PCT i	nternational filing dat	e of this application				
Serial No Serial No	Filed	{] pate	ntea () pending (] abandoned		
Serial No.	Filed	[] pate	ntea () penaing (j abandoned	lamanta mada an	information and balisf are
believed to be true; and f						information and belief are
punishable by fine or imp	umner mat mese stat	ements were made v	and that such will	e iliai wiiliul lai	onte may jeonardi	ze the validity of the
application or any patent		under 16 030 1001 a	uio tilat sucii wiii	ui iaise staterii	erits may jeopaidi	ze the validity of the
I bereby appoint indi	issueu iriereori. vidually and collective	alv the following as n	ov/our attorney or	agent with full	nower of substitut	tion and revocation, to
prosecute this application	and to transact all h	usiness in the U.S. F	atent and Trader	nark Office cor	nected therewith:	non and revocation, to
	ph S. Tripoli		Registration No.			
	ert D. Shedd		Registration No.		and	
	vuki Akivama		Registration No.			
Kulii	yuni Aniyaina		. 1091311411011 140.	.0, 0.4		
PI	EASE ADDRESS A	11				
r.	ころうに んりりいにりひ べい					

COMMUNICATIONS TO:

JOSEPH S. TRIPOLI PATENT OPERATIONS THOMSON multimedia Licensing Inc P.O. Box 5312 PRINCETON, NEW JERSEY 08543-5312

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Citizenship	India	(Signature in Full. No initials.) Date
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Sole or Joint Inventor (2)	Edward Allen Hall	Edward Allen Hall (Signature in Full. No initials.) Date 24 March 2002
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Sole or Joint Inventor (3)		
Citizenship	(Type or Print)	(Signature in Full. No initials.)
Post Office Add	dress	Date
Residence		
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